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Certificate No.: TC-5548

QC ABSTRACT

AME OF WORK: Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, yatarayanapura Sub Division. CALL-2

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	49.33	8	8

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022- 06-15-25** **Date: 23-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No 06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-04-22
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.14	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date BANGALORE

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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TEST REPORT ON COARSE AGGREGATES

Date: 23-04-22

Lab ID	:	**CP-2022- 06-15-25**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	382	382	2.5	97.5	90-100
3	20 mm	6742	7124	47.5	52.5	30-70
4	10 mm	5285	12409	82.7	17.3	10-35
5	4.75 mm	2095	14504	96.7	3.3	0-5
6	Pan	544	15048	100.3	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022- 06-15-25** **Date: 23-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.7	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.50	–
6	Water Absorption(%)	0.26	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Date: 22-04-22

Lab ID	:	CP-2022- 06-15-25
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022- 06-15-25 Date: 22-04-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

.D	:	CP-2022- 06-15-25 **Date: 22-04-22**
.tomer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
.ddress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-04-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

J : CP-2022- 06-15-25 Date: 22-04-22

HYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	CP-2022- 06-15-25 **Date: 28-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	27-04-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

J	:	CP-2022- 06-15-25 Date: 02-05-22
stomer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
ddress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-04-22
Sample Type /Size	:	Precast Cover Slab-100mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	28/04/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

	:	CP-2022- 06-15-25
tomer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
ddress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-04-22
Sample Type /Size	:	Precast Cover Slab-230mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	28/04/2022

Date: 02-05-22

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.05	230.56	3.116	17680	395.6	22.4	20.8	26.0
2	Cover Slab-2	150.95	230.51	3.122	17893	396.1	22.1	20.6	25.7
3	Cover Slab-3	150.40	230.32	3.117	17762	399.8	22.5	20.9	26.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

)	:	CP-2022- 06-15-25 Date: 05/05/2022
omer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
ddress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	28/04/2022	05/05/2022	149.03 X 151.87 X 151.76	22633	8.313	407.8	18.0	18.2
2	Drain Bottom Raft	M20	28/04/2022	05/05/2022	151.53 X 150.44 X 150.39	22796	8.693	421.2	18.5	
3	Drain Bottom Raft	M20	28/04/2022	05/05/2022	150.22 X 151.63 X 151.86	22778	8.936	412.8	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

.)	:	CP-2022- 06-15-25 **Date: 26/05/2022**
.tomer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
.ddress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	28/04/2022	26/05/2022	149.84 X 151.57 X 151.45	22712	8.563	529.6	23.3	23.0
2	Drain Bottom Raft	M20	28/04/2022	26/05/2022	151.02 X 149.16 X 150.80	22526	8.688	506.3	22.5	
3	Drain Bottom Raft	M20	28/04/2022	26/05/2022	150.97 X 151.50 X 149.54	22871	8.112	531.1	23.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022- 06-15-25 **Date: 06/05/2022**
omer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
ddress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	29/04/2022	06/05/2022	149.85 X 150.58 X 150.91	22564	8.945	414.4	18.4	18.6
2	Drain Side Wall	M20	29/04/2022	06/05/2022	151.00 X 150.12 X 151.59	22669	8.943	422.3	18.6	
3	Drain Side Wall	M20	29/04/2022	06/05/2022	151.95 X 151.52 X 149.23	23022	8.806	434.2	18.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

,D	:	CP-2022- 06-15-25 Date: 27/05/2022
,tomer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
,ddress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	29/04/2022	27/05/2022	151.23 X 150.50 X 150.23	22760	8.552	529.2	23.2	23.1
2	Drain Side Wall	M20	29/04/2022	27/05/2022	150.41 X 150.78 X 151.00	22679	8.374	505.8	22.3	
3	Drain Side Wall	M20	29/04/2022	27/05/2022	151.38 X 150.33 X 149.12	22757	8.629	537.1	23.6	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022- 06-15-25 **Date: 05/05/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Culvert Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft	M20	28/04/2022	05/05/2022	151.08 X 151.65 X 149.78	22911	8.364	417.1	18.2	18.6
2	Culvert Bottom Raft	M20	28/04/2022	05/05/2022	150.81 X 151.43 X 149.98	22838	8.439	431.2	18.9	
3	Culvert Bottom Raft	M20	28/04/2022	05/05/2022	151.69 X 151.90 X 149.21	23043	8.727	430.9	18.7	

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Quality Manager

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Assistant Executive Engineer
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Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	Culvert Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft	M20	28/04/2022	26/05/2022	151.98 X 150.04 X 150.55	22803	8.875	536.4	23.5	23.1
2	Culvert Bottom Raft	M20	28/04/2022	26/05/2022	149.30 X 151.69 X 151.71	22647	9.030	505.1	22.3	
3	Culvert Bottom Raft	M20	28/04/2022	26/05/2022	151.40 X 149.87 X 149.06	22690	8.507	533.7	23.5	

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Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts at Thanisandra Surrounding Area in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency	:	Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Customer ID	:	Culvert Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall	M20	29/04/2022	06/05/2022	150.67 X 149.12 X 149.01	22468	9.096	424.2	18.9	18.6
2	Culvert Side Wall	M20	29/04/2022	06/05/2022	149.10 X 149.67 X 150.37	22316	9.037	411.5	18.4	
3	Culvert Side Wall	M20	29/04/2022	06/05/2022	150.40 X 149.21 X 151.68	22441	8.177	415.7	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/05/2022

ID	:	CP-2022- 06-15-25
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Customer's Reference	:	BBMP/EE/BTP/WO/09/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-22
Customer ID	:	Culvert Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall	M20	29/04/2022	27/05/2022	151.92 X 151.36 X 151.92	22995	8.211	532.0	23.1	23.1
2	Culvert Side Wall	M20	29/04/2022	27/05/2022	150.59 X 151.47 X 150.31	22809	8.777	514.5	22.6	
3	Culvert Side Wall	M20	29/04/2022	27/05/2022	150.28 X 151.16 X 151.31	22717	8.611	539.7	23.8	

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